From: Julie Konzuk <JKonzuk@Geosyntec.com>
Sent: Thursday, February 16, 2023 9:43 PM
To: Ohl, Matthew
Cc: Andrew A Gremos; Bob Glazier; Norman Bernstein; pracher@psrb.com; Urban, Amanda; Neighbors, Katie; Corey.S.Knox@usace.army.mil; Clabaugh, William B CIV USARMY CELRL (USA); Grimm, Jennifer J CIV USARMY CEHNC (USA); Grayson, William L CIV USARMY CELRL (USA)
Subject: RE: Request for call with EPA to discuss next steps for the Third Site DNAPL Cell investigation

Matt,

Our team are not available on the 22nd. Would EPA, IDEM, and the USACE have availability on the 23rd instead?

Thanks,

Julie

-----Original Appointment-----
From: Ohl, Matthew <ohl.matthew@epa.gov>
Sent: Thursday, February 16, 2023 5:09 PM
To: Julie Konzuk
Cc: Andrew A Gremos; Bob Glazier; Norman Bernstein; pracher@psrb.com; Urban, Amanda; Neighbors, Katie; Corey.S.Knox@usace.army.mil; Clabaugh, William B CIV USARMY CELRL (USA); Grimm, Jennifer J CIV USARMY CEHNC (USA); Grayson, William L CIV USARMY CELRL (USA)
Subject: Request for call with EPA to discuss next steps for the Third Site DNAPL Cell investigation
When: Wednesday, February 22, 2023 2:00 PM-3:00 PM (UTC-06:00) Central Time (US & Canada).
Where: Microsoft Teams Meeting

Good afternoon Julie,
Thank you for the summary. Please advise whether this time will work or if we should check our availability for the following week.
Thank you,
Matt

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From: Julie Konzuk <JKonzuk@Geosyntec.com>
Sent: Tuesday, February 14, 2023 9:04 AM
To: Ohl, Matthew <ohl.matthew@epa.gov>
Cc: Andrew A Gremos <agremos@ramboll.com>; Bob Glazier <RGlazier@Geosyntec.com>; Norman Bernstein <nwbernstein@nwbllc.com>; pracher@psrb.com; Urban, Amanda <urban.amanda@epa.gov>; Neighbors, Katie <kneighbo@idem.IN.gov>; Corey.S.Knox@usace.army.mil; Clabaugh, William B CIV USARMY CELRL (USA) <William.B.Clabaugh@usace.army.mil>; Grimm, Jennifer J CIV USARMY CEHNC (USA) <Jennifer.J.Grimm@usace.army.mil>; Grayson, William L CIV USARMY CELRL (USA) <William.L.Grayson@usace.army.mil>
Subject: RE: Request for call with EPA to discuss next steps for the Third Site DNAPL Cell investigation

Matt, I forgot to add one point in the email below, now added in red font for reference.

From: Julie Konzuk
Sent: Monday, February 13, 2023 4:12 PM
To: Ohl, Matthew <ohl.matthew@epa.gov>
Cc: Andrew A Gremos <agremos@ramboll.com>; Bob Glazier <RGlazier@Geosyntec.com>; Norman Bernstein <nwbernstein@nwbllc.com>; pracher@psrb.com; Urban, Amanda <urban.amanda@epa.gov>; Neighbors, Katie <kneighbo@idem.in.gov>; Corey.S.Knox@usace.army.mil; Clabaugh, William B CIV USARMY CELRL (USA) <William.B.Clabaugh@usace.army.mil>; Grimm, Jennifer J CIV USARMY CEHNC (USA) <Jennifer.J.Grimm@usace.army.mil>; Grayson, William L CIV USARMY CELRL (USA) <William.L.Grayson@usace.army.mil>
Subject: Request for call with EPA to discuss next steps for the Third Site DNAPL Cell investigation

Matt,

Please find attached preliminary findings and borehole logs from our Phase 3 investigation of the DNAPL Cell as completed to date. Below is a high-level summary of the findings. Based on the observations of deep contamination at PSGS-20, located near the sheet pile wall, we would like to discuss some proposed small modifications to our work plan for completing the investigation in the DNAPL Cell.

Summary of findings to date:

- All locations within the DNAPL Cell, with the exception of PSGS-16R, have been sampled, including soil profiling with depth and installation and sampling of monitoring wells screened from 41 to 46 ft bgs at PSGS-15R, PSGS-18, PSGS-19, and PSGS-20
- PSGS-18 and PSGS-19 were either not contaminated (PSGS-18) or had very low VOC concentrations (PSGS-19)
- Total VOC concentrations at PSGS-15R in the 41-46 ft bgs depth interval were more than an order of magnitude lower than prior grab groundwater samples collected in 2020 from PSGS-15. Given that the well screens were placed at the same depth interval (41-46 ft bgs) and the close proximity of PSGS-15 and PSGS-15R, we believe this reflects the benefit of natural attenuation over the ensuing two years and the greater accuracy from a monitoring well sample than a grab sample. VOCs were not detected below 46' bgs in PSGS-15R indicating a lack of further vertical migration in this area.
- Total VOC concentrations in PSGS-20 were elevated, especially in groundwater, in the 41-46 ft bgs depth interval (nearing 21 mg/L), with TCE being the predominant VOC detected along with its daughter product cis-1,2-DCE. The concentrations were not high enough, either in soil or groundwater, to indicate the presence of DNAPL at this depth. Please note that PSGS-20 is located 2.5 ft from the multi-phase extraction well X-A3, 8.75 ft away from electrode E-A3, and 12.4 ft from electrode E-B4, all of which have long-screened permeable filter packs and could have provided a conduit for migration into that 41-46 ft depth interval.
- Total VOC concentrations in soil spiked up slightly again at 51.5 ft bgs (to 30 mg/kg) and tapered down to non-detect below 56.5 ft bgs through to 60 ft bgs. These concentrations are again not high enough to indicate the presence of DNAPL. An attempt was made to collect a groundwater sample from this depth interval, but no groundwater was recovered.
- Acetone continues to be detected at elevated levels in both PSGS-15R and PSGS-20. Acetone was not detected pre-ERH, but is often detected post-thermal. The concentrations of acetone are currently lower than detected immediately post-ERH, but that is to be expected given the rapid natural attenuation of acetone. As such, the detection of acetone suggests that this VOC mass was mobilized during the ERH program.

We would like to arrange a conference call next week at a mutually convenient time/date to discuss these results and a path forward. Please advise as to the governmental availability for such a call.

Regards,

Julie

Julie Konzuk, Ph.D., P.Eng. (ON)
Senior Principal
Geosyntec Consultants International, Inc.
605 Boxwood Drive
Cambridge, ON N3E 1A5
Phone: 416.637.8746 non responsive -personal privacy information
(*She/Her*)

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